Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Construction of Rangamandira at 5th Phase play ground and repair works in Vivekananda park in Attur ward no. 03.

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
							Estimate Cost Rs.	50.00 Lakhs
KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, (Page No 5., I.No.2.3 of KPWD S.R 2016-17).								
Column for roof truss	24	0.90	0.90	0.40	7.78			
For Gate	1	5.00	0.50	0.30	0.75			
For SSM	2	30.00	0.75	0.80	36.00			
	2	15.00	0.75	0.80	18.00			
					62.53	**Cum**	**204.12**	**12762.81**
KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
Column for roof truss	24	0.90	0.90	0.15	2.92			
Surround Rangamandira	2	25.00	1.00	0.10	5.00			
	1	15.00	1.00	0.10	1.50			
For SSM	2	30.00	0.75	0.10	4.50			
	2	15.00	0.75	0.10	2.25			
For Steps	6	1.50	0.90	0.10	0.81			
For Gate	1	5.00	0.45	0.10	0.23			
For Platform flooring	1	14.00	30.00	0.10	42.00			
					59.20	**Cum**	**5449.68**	**322626.51**
KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No 23., I.No.5.6 of KPWD S.R 2016-17).								
For SSM	2	30.00	0.75	0.80	36.00			
	2	15.00	0.75	0.80	18.00			
For Gate	1	5.00	0.45	0.45	1.01			
					55.01	**Cum**	**4521.96**	**248764.32**
4 KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No 23., I.No.5.6 of KPWD S.R 2016-17).								
For SSM	2	30.00	0.60	1.00	36.00			
	2	15.00	0.60	1.00	18.00			
					54.00	**Cum**	**5405.40**	**291891.60**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
B 5-11 : Providing and constructing load bearing wall with cement concrete cavities blocks (low blocks) of size 400x200x200 mm Grade B having a minimum face shell thickness of 30mm l web thickness of 25mm with block density between 1100 kg/m3 and 1500 kg/m3 having a imum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and structed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, ffolding, curing complete as per specifications. KBS No.5.4 (Page No 24., I.No.5.24.1 of KPWD 2016-17).								
Steps	6	1.50	0.80		7.20			
	6	1.50	0.60		5.40			
	6	1.50	0.40		3.60			
	6	1.50	0.20		1.80			
					18.00	**Sqm**	**1023.84**	**18429.12**
viding and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 portion, cut to required shape, pattern with paper joints, finished with cement mortar using ite cement and colour pigments to match the colour of slab making through jointing with lant, groves in joints including cost of curing - minimum width of 900mm. (P.No. 109, I.No. 61.2 of PWD SR 2016-17)								
tform flooring	1	14.00	30.00		420.00			
Steps	48	1.50	0.20		14.40			
					434.40	**Sqm**	**2040.12**	**886228.13**
RB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with ment mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost materials, labour, curing complete as per specifications. (Page No 113, I.No. 15.1 of KPWD S.R 16-17).								
SSM	2	30.00		0.90	54.00			
	2	15.00		0.90	27.00			
					81.00	**Sqm**	**104.76**	**8,485.56**
RRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. nstruction of embankment with approved material Gravel/Murrum with all lifts and leads, nsporting to site, spreading, grading to required slope and compacting to meet requirement ble 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & mpaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (P.No.148 o.19.60)								
tform	1	15.00	30.00	0.90	405.00			
					405.00	**Cum**	**326.16**	**132094.80**
RB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 0kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine gregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine xed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for of slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached asters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, rapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all aterials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 1,4.6, No. KBS 4.1,4.6, No. 13/ (P.No.13/It No.4.11)								
	24	0.90	0.90	1.20	23.33			
rround Rangamandira	2	25.00	1.00	0.10	5.00			
	1	15.00	1.00	0.10	1.50			
					29.83	**Cum**	**6491.88**	**193639.80**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
B 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, ding, hooking, placing in position,lapping and / or welding wherever required, tying with ding wire andanchoring to the adjoining members wherever necessary complete asper design s, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of chinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-17)								
g/cum	1	29.83	60.00		1.79			
					1.79	**Tn**	**65455.56**	**117144.51**
ricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top mber is provided with 50x50x6mm double equal angles, welded back to back and in between and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for tical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the mbers are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate d shoe plate.The work includes cutting, straightening, placing in position of M.S angle and eding wherever necessary, and applying one coat of red oxide primer coat to all themembers luding cost of all materials, labour charges, and hire charges of machineries for cutting, welding, nding and erection equipments, with all lead and lift, transportation, etc., complete as per ecification. (I No-7.29,P No-45)								
mmdia foundation bolts 5m long, 24x10x0.6	144.00	2.47			355.68			
ts 24x10	240.00	0.05			12.00			
cm base square plate mm thick= 24x3x0.6x0.6	25.92	93.60			2426.11			
cm dia MS pipe 6mm thick each column = 4.8x24	115.20	46.30			5333.76			
MC								
x1.8	43.20	15.00			648.00			
mm dia MS Pipe medium ade 12 x 15m	180.00	5.03			905.40			
mm dia MS Pipe medium ade 12 x 14m	168.00	5.03			845.04			
mm dia medium pipe x56 Nos x 0.75	504.00	5.03			2535.12			
S rectangular tubes erlins) = 12 x 5 x 35					2100.00			
x2" L angle clite	115.20	1.25			144.00			
r foundation	75.00	1.25			93.75			
otection surround MS grill					2601.50			
					18000.00	**Kgs**	**118.80**	**2138400.00**
ROVIDING TRAPEZOIDAL PROFILED SHEET roviding and installing of pre painted Galvolume iron Trapezoidal rofiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height ith crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per STM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and olyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed ver the existing purlins, rafters, channels and trusses. (P.No.300 Item No38.30)								
	1	16.50	32.00		528.00			

Description of Items	No	Length	Width	Depth	Quantity	[redacted]	Amount
bricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot nding to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental sign in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 m and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two ats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged signs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia aring in three places for each flop. Heavy Duty Locking arrangements at tow places including st of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, nsportation, unloading, scaffolding charges and all other incidental charges for successful mpletion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)					528.00		60	439084.80
	1	4.60	2.40		11.04			
					11.04	**Sqm**	**12475.00**	**137724.00**
ading and unloading of stone boulders/stone aggregates/sand/kankar/Moorum including all ad and lift and as per specification and direction of the Engineer in charge of the work.(P.No-134,I o-17.2)								
ty frm Item No-1					62.53			
					62.53	**Cum**	**68.00**	**4,251.77**
ost of haulage Excluding loading and unloading including all lead and lift and as per specification nd direction of the Engineer in charge of the work., 10 Km lead								
ty frm Item No-1					62.53			
					62.53	**Cum**	**32.00**	**2,000.83**
							Total Construction Cost	**4953528.56**
							DPR & PMC Charges	**46,400.00**
							Sub Total	**4999928.56**
							Utility Shifting, Miscellaneous, Rounding off	**71.44**
							GRAND TOTAL	**5000000.00**

ertificate

. The workspot was inspected and works is found to be necessary.

. The area comes within the Bruhat Bangalore Mahanagara Palike limits.

The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates.

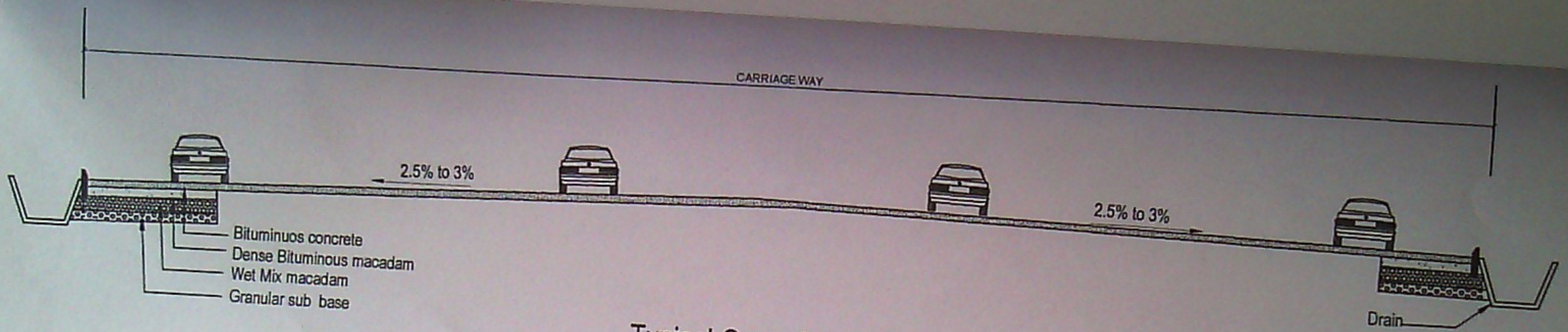
SILICON CONSULTING ENGINEERS K.R

Assistant Engineer

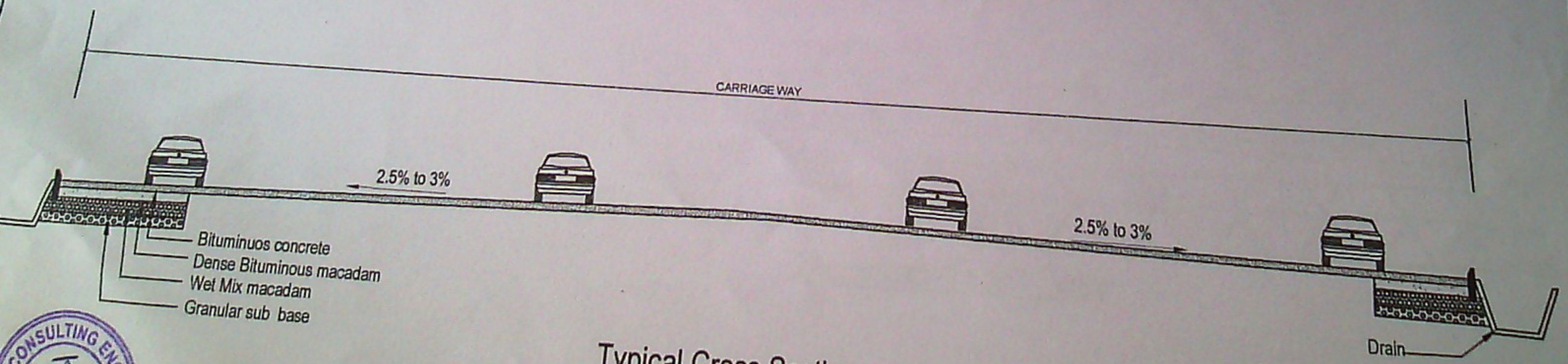
Asst. Executive Engineer

Executive Engineer,
Yelahanka Division,
BBMP Bangalore

dministrative Sanction for Rs. 50.00 Lakh
Fifty Lakhs only
accorded under head P.3158
2016.17
egistered as CE No. ..... Subject
conditions contained in enclosed memo
EE/Yelk/AA/09/18-19 7-9-18
Executive Engineer

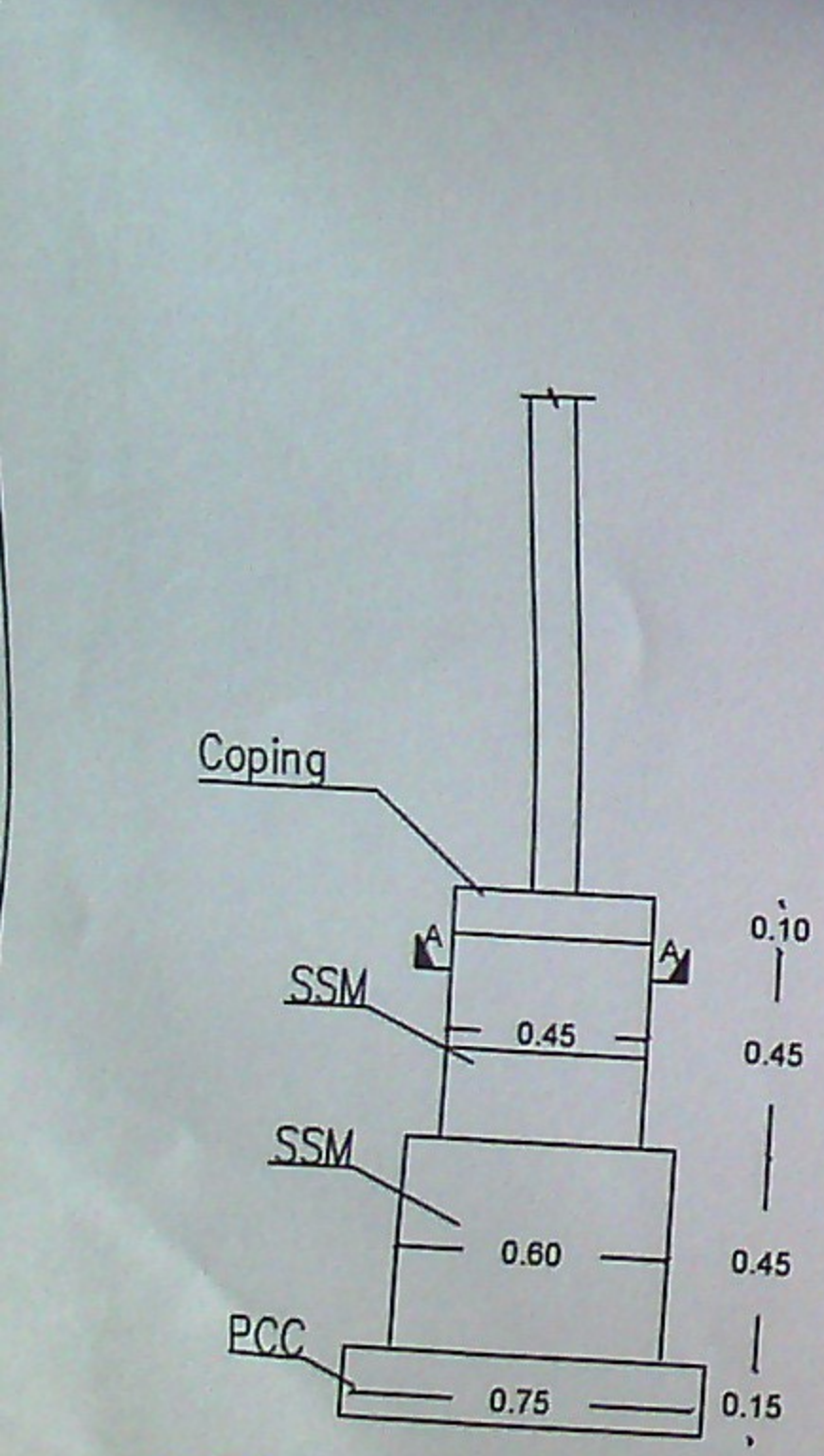


Typical Cross Section

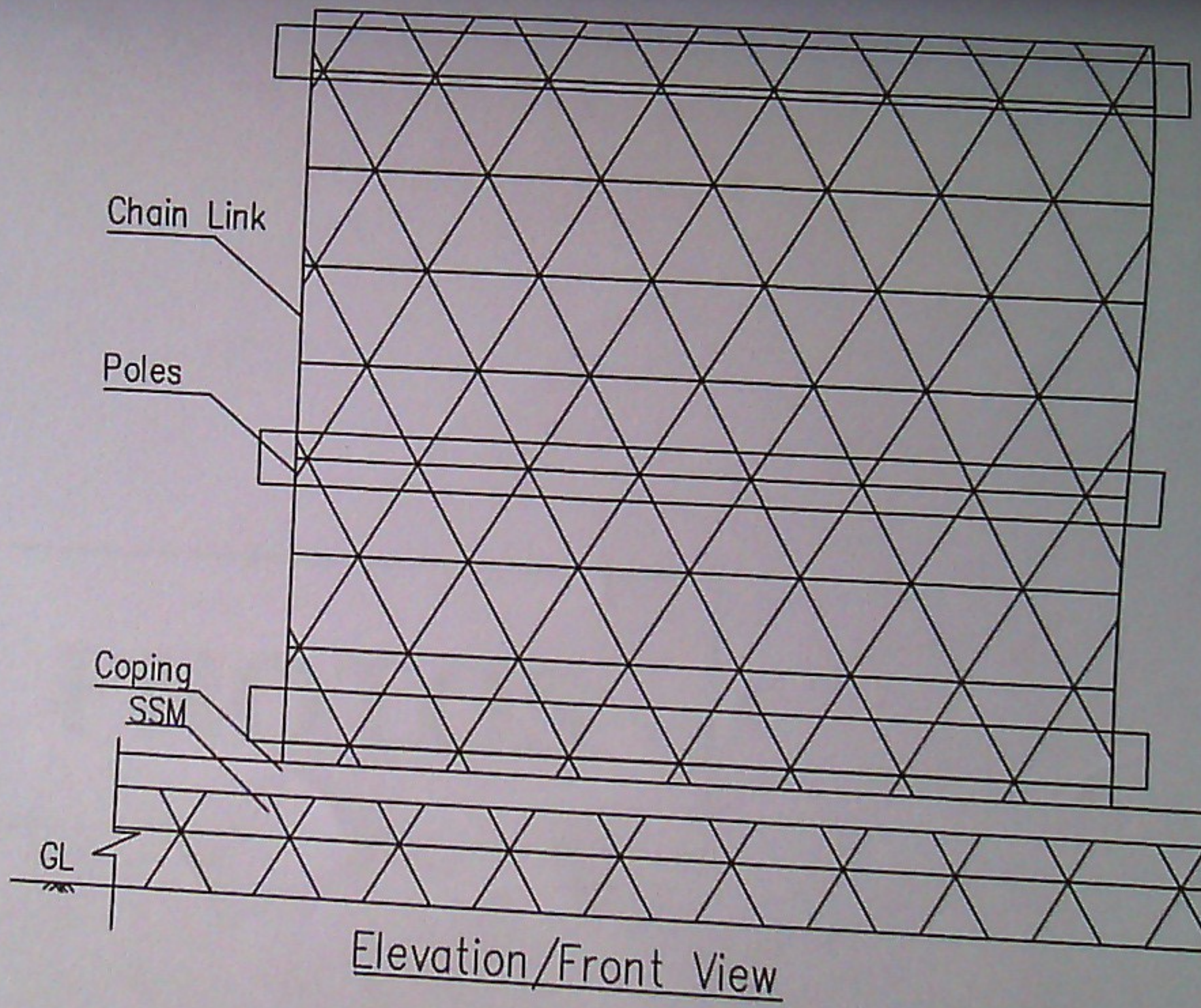


Typical Cross Section

SILICON CONSULTING ENGINEERS



Section



Elevation/Front View

SILICON CONSULTING ENGINEERS

e of Work: Improvement and asphalting to 3rd, 4th and 5th main roads of Attur Layout in Attur wardno. 03.

SILICON CONSULTING ENGINEERS

A2-03

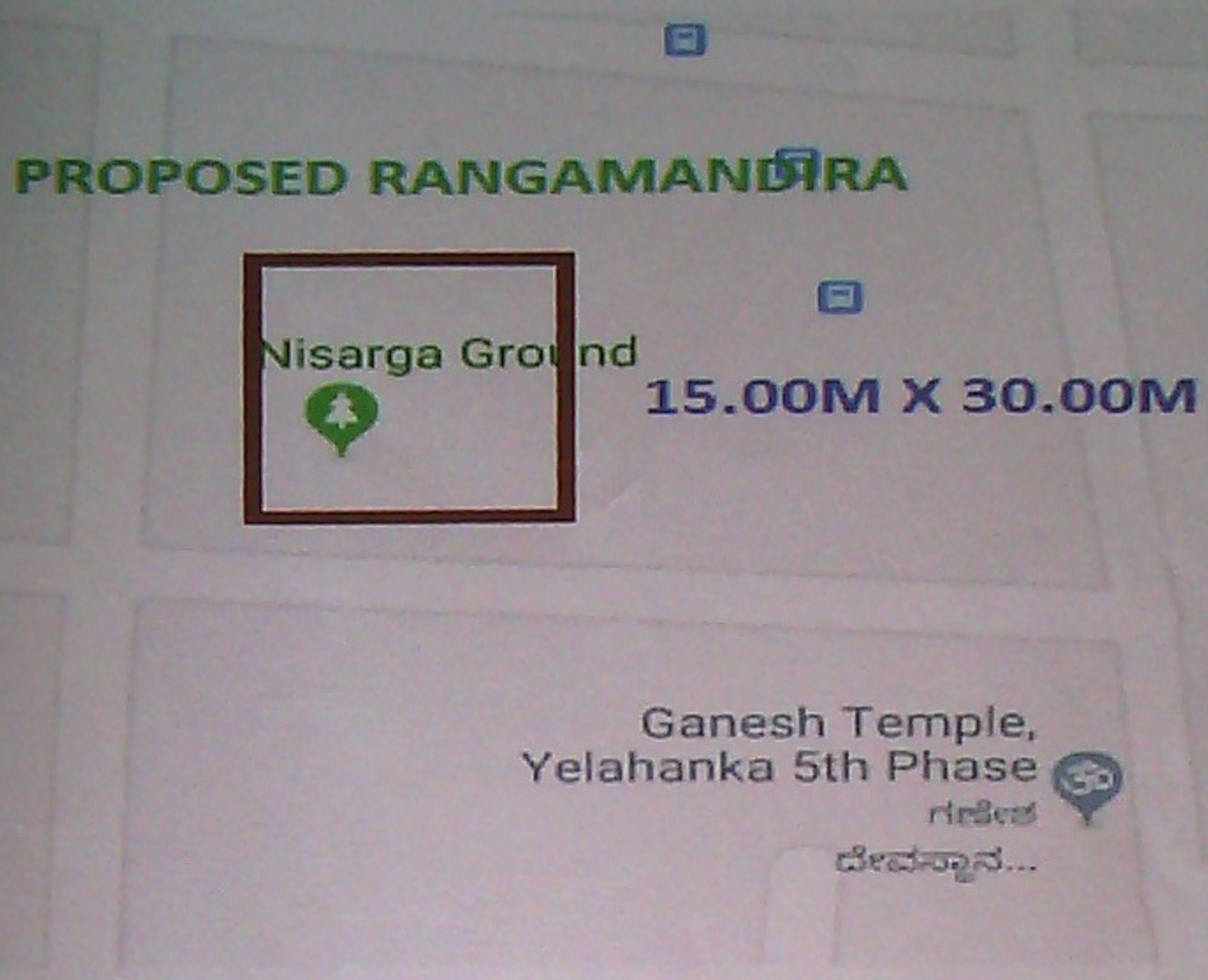
ne of Work: Improvement and asphalting to 2nd main road of Muneshwara Layout in Attur ward no. 03.

&

e of Work: Improvement and asphalting to 10th and 11th cross roads of Muneshwara layout in Attur wardno. 03.

AE-01

ne of Work: Construction of Rangamandira at 5th Phase play ground and repair works in Vivekananda park in Attur ward no. 03.



Name of Work: Improvements to park near Dairy Circle in Attur ward no. 03.

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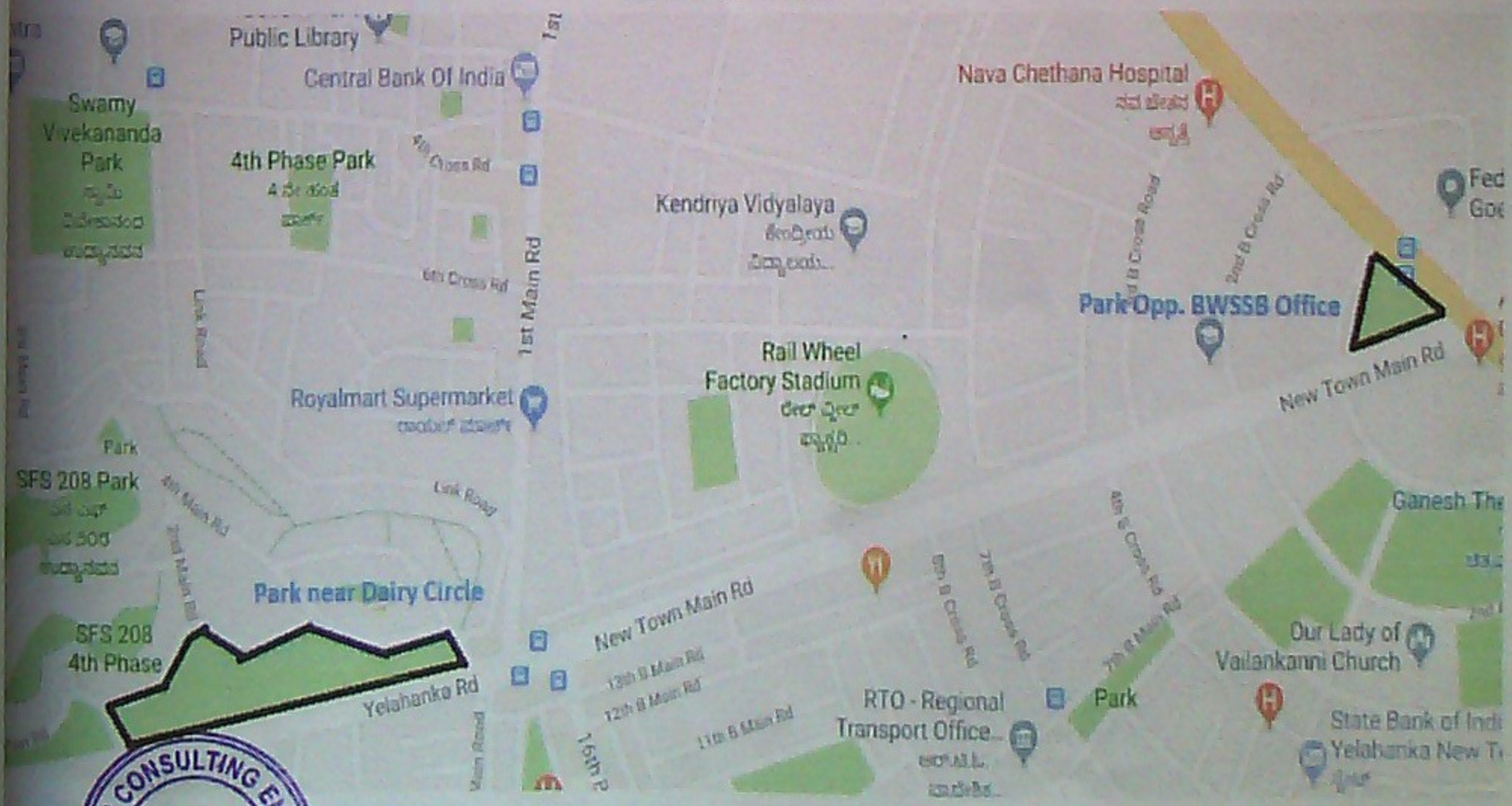
Name of Work: Providing Chainlink fencing to Park Opposite BWSSB office in Attur ward no. 03.



SILICON CONSULTING ENGINEERS

AE-03